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TO AMEMBASSY TEHRAN

UNCLAS STATE 019478

E.O. 11652: N/A

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SUBJ: REQUEST FOR INFORMATION ON GEOTHERMAL ENERGY RESEARCH

REF: TEHRAN 00153

1. PER YOUR REQUEST, ATTACHED FOR THE ATOMIC ENERGY ORGANIZATION OF IRAN'S INFORMATION, IS A LIST OF NAMES AND ADDRESSES OF AMERICAN SCIENTISTS AND ENGINEERS WHO ARE LEADERS IN GEOTHERMAL ENERGY RESEARCH

WITH BRIEF RESUMES OF THEIR PROFESSIONAL QUALIFICATIONS.

WE WOULD LIKE TO NOTE THAT ANY TECHNICAL ASSISTANCE DEALING WITH GEOTHERMAL ENERGY MUST BE COORDINATED WITH THE OFFICE OF THE ASSISTANT ADMINISTRATOR FOR INTERNATIONAL AFFAIRS, USERDA.

BODVARSSON, GUNNAR, B. AUG. 8, 16. APPLIED MATHEMATICS, GEOPHYSICS. DIPL. ENG. TECH. UNIV, BERLIN, 43: PH.D, CALIF. INST. TECHNOL, 57. HEAD GEOTHERMAL RES. DEPT, STATE ELEC. AUTH, REYKJAVIK, ICELAND, 46-64; VIS. PROF. MATH. & OCEANOGRAPHY, ORE. STATE UNIV. 64- UN TECH. EXPERT, MEX, B.W.I. & CENT. AM, 51 54, 63 & 65-70. ADDRESS: DEPT. OF OCEANOGRAPHY, OREGON STATE UNIVERSITY, CORVALLIS, ORE. 97331.
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FOURNIER, ROBERT O(RVILLE), B. SAN DIEGO, CALIF. JAN. 14, 32; M. 60; GEOLOGY. A.B, HARVARD, 54; FEL. & PH.D. (GEOL), CALIFORNIA, 58. ASSOC. PROF. LECTR. GEOL, GEORGE WASH. UNIV, 58-59; GEOLOGIST, U.S. GEOL. SURV, 58- GEOL. SOC. AM; MINERAL. SOC. AM;

GEOCHEM. SOC; AM. GEOPHYS. UNION; SOC. ECON. GEOL; INT. ASN.
GEOCHEM. & COSMOCHEM; GEOCHEM. SOC. JAPAN. GEOLOGIC AND GEOCHEMICAL
ASPECTS OF GEOTHERMAL ENERGY; GEOCHEMISTRY OF HYDROTHERMAL
SOLUTIONS AND HYDROTHERMAL ALTERATION; EXPERIMENTAL STUDIES OF
SOLUTION MINERAL REACTIONS AT HIGH TEMPERATURES AND HIGH
PRESSURES. ADDRESS: GEOLOGIC DIVISION, U.S. GEOLOGICAL SURVEY,
345 MIDDLEFIELD RD, MENLO PARK, CA 94025.

JONES, PAUL H(ASTINGS), B. FOSTORIA, MICH, AUG. 31, 18; M. 41;
GEOLOGY. B.S, MICH. STATE COL, 41; UNIV. HOUSTON, 41-42; M.S.
LA. STATE UNIV. 51, PH.D, 68. GEOPHYSICIST, HALLIBURTON OIL WELL
CEMENTING CO, TEX, 41-42; FROM GEOLOGIST TO GEOLOGIST IN CHARGE
GROUNDWATER INVESTS, U.S. GEOL. SURV, LA, 42-52, DIST. GEOLOGIST IN
CHARGE, PA, 52-55, TECH. ADV, GROUNDWATER GEOL. SURV, INT. CO-OP.
ADMIN, INDIA, 55-57, DIST. GEOLOGIST, TENN. 58-59, RES. PROJ.
CHIEF, GROUND WATER BR, NAT. REACTOR TESTING STA, IDAHO 59-62,
CHIEF, RADIOHYDROL. SECT, WATER RESOURCES DIV, D.C. 62-64,
RES HYDROLOGIST, GULF COASTAL PLAIN, 65- CONSULT, WORLD BANK,
66; UN, 70; MEM. NAT.
ACAD. SCI. ADV. TEAM, INDIA, 71. SOC. ECON. GEOL; FEL. GEOL. SOC. AM;
AM. ASN. PETROL. GEOL; SOC. PETROL. ENG; AM. SOC. TEST & MAT.
QUANTITATIVE INTERPRETATION OF ELECTRIC LOGS; FACTORS DETERMING
DOWNDIP OCCURRENCE OF FRESH ARTESIAN WATER IN SAND-TYPE
AQUIFERS; INTERPRETATION OF BOREHOLD GEOPHYSICAL LOGS OF WELLS
PENETRATING CONSOLIDATED ROCKS; HYDROLOGY OF WASTE DISPOSAL;
GEOTHERMAL RESOURCES OF NORTHERN GULF OF MEXICO BASIN. ADDRESS: GULF
COAST HYDROSCIENCE CENTER, MISSISSIPPI TEST FACILITY, NATIONAL
AERONAUTICS & SPACE ADMINISTRATION, BAY ST. LOUIS, MS 39520.

KRUGER, PAUL, B. JERSEY CITY, N.J. JUNE 7, 25; DIV; NUCLEAR CIVIL
ENGINEERING. B.S, MASS. INST. TECH, 50; M.S, CHICAGO, 52, PH.D.
(NUCLEAR CHEM), 54. ASST. INSTR. NUCLEAR & PHYS. CHEM, CHICAGO,
50-53; RES. PHYSICIST, RES. LABS DIV, GEN. MOTORS CORP, 53-54;
V. PRES. & HEAD DEPT. PHYS. SCI, NUCLEAR SCI. & ENG. CORP, PA.
54-60; MGR. NUCLEAR PROJ, HAZELTON-NUCLEAR SCI. CORP, 60-62; ASSOC.
PROF. NUCLEAR CHEM, STANFORD UNIV, 62-71, PROF. NUCLEAR CIVIL ENG,
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71- U.S.A.A.F, 43-46, 1ST. LT. NUCLEAR METHODS IN CIVIL ENGINEERING
AND ENVIRONMENTAL SCIENCES; ENVIRONMENTAL RADIOACTIVITY; NUCLEAR
EXPLOSION ENGINEERING. ADDRESS: DEPT. OF CIVIL ENGINEERING, STANFORD
UNIVERSITY, STANFORD, CA 94305.

MUFFLER, LEROY JOHN PATRICK, B. ALHAMBRA, CALIF, SEPT. 19, 37;
GEOLOGY, GEOCHEMISTRY. B.A, POMONA COL. 58; WOODROW WILSON FEL,
PRINCETON, 58-59, NAT. SCI. FOUND. FEL, 59-61, M.A, 61, PH.D.
(GEOL), 62. GEOLOGIST, SOUTHWEST STATES BR, U.S. GEOL. SURV. 62.
ALASKAN GEOL. BR, 62-64, FIELD GEOCHEM. & PETROL. BR. 64- GEOL.
SOC. AM; MINERAL. SOC. AM; AM. GEOPHYS. UNION. GEOTHERMAL RESOURCES;
HYDROTHERMAL ALTERATION; HOT SPRINGS; CENOZOIC VOLCANIC ROCKS.
ADDRESS: GEOLOGIC DIVISION, U.S. GEOLOGICAL SURVEY, 345 MIDDLEFIELD
RD, MENLO PARK, CA 94025.

MEIDAV, TSVI, B. POLAND, JUNE 20, 30; M; GEOPHYSICS, GEOLOGY.
B.-A. WASHINGTON (ST. LOUIS), 55, M.A. 56, WHEELER, HEERMANS &
UNIV. FELS, 56-61, PH.D. (GEOPHYS), 61. GEOPHYSICIST, GEOPHYS. INST.
ISRAEL, 61-65; SR. GEOPHYSICIST, HUNTEC LTD, 65-67; ASSOC. PROF.
GEOPHYS, UNIV. CALIF, RIVERSIDE, 67- ADV, TASK FORCE REVISION
GROUNDWATER BASIN MGT. MANUAL, AM. SOC. CIVIL ENGRS, 68-?,
PRESENTLY AT GEONICS INC. MEM. SITE INVEST. COMT, ISRAEL BUR.
STANDARDS, 63-65; SUBCOMT. GEODESY GEOMAGNETISM, NAT. RES. COUN.
CAN, 66-67. ISRAELI ARMY, 45-50. AM. GEOPHYS. UNION; SOC. EXPLOR.
GEOPHYS; ASN. ENG. GEOL; SEISMOL. SOC. AM; EUROPEAN ASN. EXPLOR.
GEOPHYS. DEVELOPMENT OF METHODOLOGY AND APPLICATION
OF GEOPHYSICS TO GROUNDWATER AND ENGINEERING PROBLEMS;
EXPLORATION FOR GEOTHERMAL RESOURCES BY GEOPHYSICAL TECHNIQUES.
ADDRESS: GEONICS INC. 3165 ADELINE ST. BERKELEY, CA. 94703

RAMEY, H(ENRY) J(ACKSON), JR., B. PITTSBURGH, PA. NOV. 30; 25;
M.48; CHEMICAL ENGINEERING. B.S. PURDUE, 49, FEL, 49-51, PH.D.
(CHEM. ENG), 52. ASST. CHEM. ENG, UNIT OPERS. LAB, PURDUE, 49,
RADIANT HEAT TRANSFER FROM GASES, 51-52; SR. RES. TECHNOLOGIST,
PETROL. PROD. RES, MAGNOLIA PETROL. CO, SOCONY MOBIL OIL CO. INC,
52-55, PROJ. ENGR, GEN. PETROL. CORP, 55-60, STAFF RESERVOIR ENGR,
MOBIL OIL CO. DIV,
60-63; PROF. PETROL. ENG, TEXAS A&M, 63-66; STANFORD UNIV, 66-
CONSULT, CHINESE PETROL. CORP, TAIWAN, 62-63. U.S.A.A.F, 44-46.
AM INST. CHEM. ENG; AM. INST. MINING, METALL. & PETROL. ENG;
(FERGUSON MEDAL, 59). HEAT TRANSFER, THERMODYNAMICS; FLUID FLOW;
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PETROLEUM PRODUCTION. ADDRESS: DEPT. OF PETROLEUM ENGINEERING,
STANFORD UNIVERSITY, STANFORD, CA 94305.

REX, ROBERT W(ALTER), B. N.Y.C, GEOCHEMISTRY, GEOLOGY. B.S. COSTA
RICA, 46; A.B, HARVARD, 51; M.S, STANFORD, 53;
PH. D. (OCEANOGR), CAL-
IFORNIA, 58. GEOLOGIST, U.S. GEOL. SURV, 51-53; OCEANOGR, U.S.
NAVAL ELECTRONICS LAB, 53; GEOLOGIST, SCRIPPS INST, CALIFORNIA,
54-57; SR. RES. ASSOC. GEOCHEM, CHEVRON RES. CO, STANDARD OIL CO.
CALIF, 58-67; PROF. GEOL. SCI, UNIV. CALIF, RIVERSIDE, 67- ,
DIR. GEOTHERMAL RESOURCES PROG, 68- , RES. GEOLOGIST, INST. GEOPHYS.
& PLANETARY PHYSICS, 67-? & ASST. DIR, 71- , CHMN. GEOTHERMAL ADV.
BD. UNIV. 70-72; PRESENTLY PRESIDENT, REPUBLIC GEOTHERMAL.
CONSULT, JET PROPULSION LAB, 63-65; U.S. BUR. RECLAMATION, 68- ;
RES. AFFILIATE, INST. GEOPHYS, UNIV. HAWAII, 69- ; MEM. TECH. ADV.
COMT. TO CALIF. GEOTHERMAL RESOURCES BD, 71- ; CONSULT,
LOS ALAMOS SCI. LAB, 71- ; OAK RIDGE NAT. LAB, 72- AAAS; GEOL. SOC.
AM; GEOCHEM. SOC; AM. GEOPHYS. UNION; ARCTIC INST. N.AM; CLAY
MINERALS SOC; SOC. ECON. PALEONT. &
MINERAL. EXPLORATION AND RESOURCE ASSESSMENT OF GEOTHERMAL RESOURCES;
OIL AND GAS EXPLORATION; ECONOMIC GEOLOGY; MINERAL-WATER INTERACTIONS
;
MINERALOGY OF DEEP SEDIMENTS AND ATMOSPHERIC DUST; X-RAY POWDER

DIFFRACTION; GEOCHEMISTRY OF GEOTHERMAL SYSTEMS; CLAYS AND CLAY MINERALS; EXPLORATION SYSTEMS, STRATEGY, ECONOMICS AND TECHNOLOGY. ADDRESS: EPUBLIC GEOTHERMAL, 11848 E. WASHINGTON BLVD, WHITTIER, CA 90609.

SMITH, MORTON C(HARLES), B. SELBY, S.DAK. SEPT. 15, 17; M. 45; METALLURGICAL ENGINEERING. B.S, S.DAK. SCH. MINES & TECH, 38, MET. E, 44; M.S. LEHIGH, 39. INSTR. METALL, ALASKA, 39-42; ASST. PROF. & ACTING HEAD DEPT, MONT. SCH. MINES, 42-45; METALLURGIST

, BLACK, SIVALLS & BRYSON, INC, MO, 45-46; ASST. PROF. METALL. & ACTING HEAD DEPT, N.MEXICO. INST. MIN. & TECH, 46-47; PROF. METALL. ENG. COLO. SCH. MINES, 47-54; MEM. STAFF & ALTERNATE GROUP LEADER PHYS. METALL, LOS ALAMOS SCI LAB, 54- CONSULT, 40- AM. SOC, METALS. PHYSICAL METALLURGY; MATERIALS SCIENCE; GRAPHITE TECHNOLOGY; TEACHING; GEOTHERMAL ENERGY; ROCKMELTING PENETRATORS. ADDRESS: LOS ALAMOS SCIENTIFIC LAB, LOS ALAMOS, NM 87544.

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WHITE, DONALD E(DWARD), B. DINUBA, CALIF, MAY 7, 14; M. 41; GEOLOGY. A.B, STANFORD, 36; FEL. & PH.D. (ECON. GEOL, PETROL), PRINCETON, 39. ASSOC. GEOLOGIST, GEOL. SURV. NEWFOUNDLAND, CAN, 37-38; GEOLOGIST, U.S. GEOL. SURV, 39-63, RES. GEOLOGIST, 63-, ASST. CHIEF MINERAL DEPOSITS BR, D.C, 58-60. DISTINGUISHED SERV. AWARD, U.S. DEPT. INTERIOR, 71. FEL. AAAS; FEL. GEOL. SOC. AM; FEL. SOC. ECON. GEOL; FEL. MINERAL. SOC. AM; GEOCHEM. SOC; CLAY MINERALS SOC; AM. GEOPHYS. UNION. ORIGIN AND GEOCHEMISTRY OF THERMAL AND MINERAL SPRINGS AND THEIR RELATIONS TO VOLCANISM AND ORE DEPOSITS; GEOTHERMAL ENERGY; ORIGIN AND NATURE OF ORE-FORMING FLUIDS; ORIGIN AND CHARACTERISTICS OF GEYSERS; ISOTOPE GEOLOGY OF WATERS; ROCK ALTERATION; ABNORMAL GEOTHERMAL GRADIENTS. ADDRESS: U.S. GEOLOGICAL SURVEY, 345 MIDDLEFIELD RD. MENLO PARK, CA 94025. END KISSINGER

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